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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/505,501	02/17/2000	William L. O'Meara	102001-200	7115	
27267	7590 09/19/2002				
WIGGIN & DANA LLP ATTENTION: PATENT DOCKETING ONE CENTURY TOWER, P.O. BOX 1832			EXAMINER		
			FELTON, AILEEN BAKER		
NEW HAVEN, CT 06508-1832			ART UNIT	PAPER NUMBER	
			3641		
			DATE MAILED: 09/19/2002	DATE MAILED: 09/19/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

pplicant(a)

Office Action Summary

pplication No. 09/505,501 Applicant(s)

O'Meara et al

Examiner

Aileen J. Baker

Art Unit **3641**



The MAILING DATE of this communication app ars on the cov r sh et with the	correspond nce address			
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 THE MAILING DATE OF THIS COMMUNICATION.				
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of the 				
 be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MC 				
communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become A - Any reply received by the Office later than three months after the mailing date of this communication, even earned patent term adjustment. See 37 CFR 1.704(b).	ARANDONED (3511 S.C. & 133)			
Status				
1) 🔀 Responsive to communication(s) filed on				
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosections of accordance with the practice under Ex parte Quay/035 C.D. 11; 453 O	ecution as to the merits is 0.G. 213.			
Disposition of Claims				
4) 🔀 Claim(s) <u>1-7 and 19-24</u>	is/are pending in the applica			
4a) Of the above, claim(s)	is/are withdrawn from considera			
5)	is/are allowed.			
6) ☑ Claim(s) <u>1-7 and 19-24</u>	is/are rejected.			
7)				
8) Claims are subject				
Application Papers				
9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are objected to by the Examine	er.			
11) The proposed drawing correction filed on is: a a approx	ved b) disapproved.			
12) ☐ The oath or declaration is objected to by the Examiner.				
Priority under 35 U.S.C. § 119				
13) \square Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(·(d).			
a) All b) Some* c) None of:	. ,			
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application N				
 Copies of the certified copies of the priority documents have been received in application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 	ı this National Stage			
14) ☑ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e	e).			
Attachment(s)				
5) X Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Page 18	spor Ala/a)			
6) Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) Notice of Informal Patent Application				
) X Information Disclosure Statement(s) (PTO-1449) Paper No(s)10				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 20 and 23 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no basis in the specification for the addition of the word "elliptical".
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 20 and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 20 and 23 currently recite "elliptical", it is unclear what shape Applicant intends since there are no elliptical shapes shown in the drawings.

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Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the ellipsoid or elliptical shape must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-7 and 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olsen(2,292,469) in view of Jacobson(4,094,248) and Smith et al(5,682,013).

Olsen discloses a propellant composition that comprises nitrocellulose, nitroglycerin, diphenylamine, and dibutylphthalate. The composition can obtain a lower viscosity through the use of an increased amount of solvent. The composition may be extruded through dies to form a perforated cylindrical grain or further changed into any desired form. The specific amounts of the ingredients and the particular shape are not disclosed.

Jacobson and Smith et al teach two propellant shapes. Jacobson teaches a shape with external grooves and Smith teaches one with a cylindrical shape.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the composition of Olsen into the shapes taught by Jacobson and Smith et al since it is suggested by Olsen that the propellant can be formed into any shape. It is well-settled that optimizing a result effective variable is well within the expected ability of a person of ordinary skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980), *In re Aller*, 220 F.2d 454, 105 USPQ 233 (CCPA 1955).

Response to Arguments

8. Applicant's arguments with respect to claims 1-7 and 19-24 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Picard(3,392,669), Graham et al(4,172,866), Brachert et al(4,051,207), Elrick(4,462,848), Dunigan et al(3,989,776 and 4,001,287), Swotinsky et al(3,855,373), and Ryker(3,201,500).
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen Baker whose telephone number is (703) 306-5751. The examiner can normally be reached on Monday through Friday from 6:30 am to 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306-4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

SUPERVISORY PATENT EXAMINER